

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A miscible primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable material, and plant material, and combinations thereof, excluding insoluble fibers, ~~with improved bioavailability, miscibility and stability~~ in a carrier selected from the group consisting of milk, milk protein-containing carriers and combinations thereof, wherein the essential lipophilic and hydrophilic bioactive components are extracted from the material by milling the material in the milk or milk protein-containing carrier and the insoluble fibers are removed by centrifuging the carrier after milling and wherein the miscible primary composition is stable, miscible and dispersible in an aqueous system.

Claim 2 (currently amended): The miscible primary composition according to claim 1, wherein the material is in a form selected from the group consisting of vegetables, leaves, flowers, fruits, seeds and other parts of the plant, and combinations thereof.

Claim 3 (currently amended): The miscible primary composition according to claim 1, wherein the material is selected from the group consisting of a berry, vegetables, seeds, flowers, citrus fruits, tomato, spinach, celery, carrots, pea, kale, parsley, watercress, cabbage, broccoli, lettuce, brussels sprouts, collard greens, turnip greens, fennel, onions, tea, corn, cocoa, coffee, thyme, sweet red pepper, and combinations thereof.

Claim 4 (currently amended): The miscible primary composition according to claim 1, wherein the essential lipophilic and hydrophilic bioactive components are selected from the group consisting of lipids, alkaloids, proteins, carbohydrates, carotenoids, polyphenolic compounds, vitamins, minerals, and combinations thereof.

Claim 5 (currently amended): The miscible primary composition according to claim 1, wherein the essential lipophilic and hydrophilic bioactive components are flavonoids selected from the group consisting of flavones, flavonols, flavanones, catechins, anthocyanidins, isoflavones, and combinations thereof.

Claim 6 (currently amended): The miscible primary composition according to claim 4, wherein the carotenoids are selected from the group consisting of carotenes, xanthophylls, and combinations thereof.

Claim 7 (currently amended): The miscible primary composition according to claim 1, wherein the milk is from animal origin.

Claim 8 (currently amended): The miscible primary composition according to claim 1, which is in a form selected from the group consisting of a powder, gel, liquid, and combinations thereof.

Claims 9-11 (canceled):

Claim 12 (currently amended): An oral composition comprising a freeze-dried, miscible powder primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable material, and plant material, ~~excluding insoluble fibers~~, and combinations thereof, ~~excluding insoluble fibers~~, ~~with improved bioavailability, miscibility and stability~~ in a milk or milk protein-containing carrier, the oral composition in a form selected from the group consisting of a foodstuff for oral administration, a food supplement, a pet food product, a cosmetic preparation, a pharmaceutical preparation, and combinations thereof, wherein the essential lipophilic and hydrophilic bioactive components are extracted from the material by milling the material in the milk or milk protein-containing carrier and the insoluble fibers are removed by centrifuging the carrier after milling and wherein the freeze-dried, miscible powder is stable, miscible and dispersible in an aqueous system.

Claim 13 (currently amended): ~~An~~ The oral composition according to claim 12, which is a form selected from the group consisting of a nutritional complete formula, a dairy product, a chilled or shelf stable beverage, a mineral or purified water, a liquid drink, a soup, a dietary supplement, a meal replacement, a nutritional bar, a confectionery, a milk or a fermented milk product, a yoghurt, a milk based powder, an enteral nutrition product, an infant formula, an infant nutritional product, a cereal product or a fermented cereal based product, an ice-cream, a chocolate, coffee, a culinary product, salad dressings, a pet food, and combinations thereof.

Claim 14 (currently amended): An oral, cosmetic or pharmaceutical composition comprising a miscible primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable, and plant material, and combinations thereof, excluding insoluble fibers, ~~with improved bioavailability, miscibility and stability~~ in a milk or milk protein-containing carrier, the oral, cosmetic or pharmaceutical composition being which is in a form selected from the group consisting of a capsule, a pill, a solution, a suspension, a syrup, a dried oral supplement, a wet oral supplement, and combinations thereof, wherein the essential lipophilic and hydrophilic bioactive components are extracted from the material by milling the material in the milk or milk protein-containing carrier and the insoluble fibers are removed by centrifuging the carrier after milling and wherein the miscible primary composition is stable, miscible and dispersible in an aqueous system.

Claims 15-19 (canceled).

Claim 20 (currently amended): The miscible primary composition according to claim 1, wherein the material is selected from the group consisting of wolfberry, blueberry, cranberry, white currant, red currant, blackcurrant, mulberry, blackberry, gooseberry, raspberry, sea buckthorn, strawberry, arbutus berry, grapes, flavonoid, polyphenol carotenoid-rich fruit, vegetables, seeds, flowers, apples, melons, kiwi, cherries, red date, prunes, peaches, persimmons, mandarin, orange, tangerine, grapefruit, chamomile, chrysanthemum, bitter orange, honeysuckle, jasmine and safflower, tomato, spinach, celery, carrots, pea, kale, parsley, watercress, cabbage,

broccoli, lettuce, brussels sprouts, collard greens, turnip greens, fennel, onions, tea, corn, cocoa, coffee, thyme, sweet red pepper, and combinations thereof.

Claim 21 (currently amended): The miscible primary composition according to claim 1, wherein the essential lipophilic and hydrophilic bioactive components are selected from the group consisting of apigenin, luteolin, diosmetin, quercetin, myricetin, kaempferol, naringenin, hesperidin, epicatechin, gallocatechin, pelargonidin, malvidin, cyaniding, genistein, daidzein, and combinations thereof.

Claim 22 (new): A miscible primary composition comprising at least essential lipophilic and hydrophilic bioactive components of a material selected from the group consisting of whole fruit, vegetable material, plant material, and combinations thereof, excluding insoluble fibers, in a plant-based milk carrier, wherein the essential lipophilic and hydrophilic bioactive components are extracted from the material by milling the material in the plant-based milk carrier and the insoluble fibers are removed by centrifuging the carrier after milling and wherein the miscible primary composition is stable, miscible and dispersible in an aqueous system.

Claim 23 (new): The miscible primary composition according to claim 22, wherein the material is in a form selected from the group consisting of vegetables, leaves, flowers, fruits, seeds and other parts of the plant, and combinations thereof.

Claim 24 (new): The miscible primary composition according to claim 22, wherein the material is selected from the group consisting of a berry, vegetables, seeds, flowers, citrus fruits, tomato, spinach, celery, carrots, pea, kale, parsley, watercress, cabbage, broccoli, lettuce, brussels sprouts, collard greens, turnip greens, fennel, onions, tea, corn, cocoa, coffee, thyme, sweet red pepper, and combinations thereof.

Claim 25 (new): The miscible primary composition according to claim 22, wherein the plant-based milk carrier is selected from the group consisting of soymilk, coconut milk and combinations thereof.

Claim 26 (new): The miscible primary composition according to claim 22, wherein the essential lipophilic and hydrophilic bioactive components are flavonoids selected from the group consisting of flavones, flavonols, flavanones, catechins, anthocyanidins, isoflavones, and combinations thereof.

Claim 27 (new): The miscible primary composition according to claim 26, wherein the carotenoids are selected from the group consisting of carotenes, xanthophylls, and combinations thereof.

Claim 28 (new): The miscible primary composition according to claim 22, which is in a form selected from the group consisting of a powder, gel, liquid, and combinations thereof.